

Claims

1. A method of screening for therapeutic agents useful in the treatment of a disease comprised in a group of diseases consisting of cardiovascular disorders, gastrointestinal and liver diseases, inflammatory diseases, hematological disorders, respiratory diseases, neurological disorders, urological disorders, thrombocytopenia and myeloma in a mammal comprising the steps of
 - i) contacting a test compound with a EDG6 polypeptide,
 - ii) detect binding of said test compound to said EDG6 polypeptide.
2. A method of screening for therapeutic agents useful in the treatment of a disease comprised in a group of diseases consisting of cardiovascular disorders, gastrointestinal and liver diseases, inflammatory diseases, hematological disorders, respiratory diseases, neurological disorders, urological disorders, thrombocytopenia and myeloma in a mammal comprising the steps of
 - i) determining the activity of a EDG6 polypeptide at a certain concentration of a test compound or in the absence of said test compound,
 - ii) determining the activity of said polypeptide at a different concentration of said test compound.
3. A method of screening for therapeutic agents useful in the treatment of a disease comprised in a group of diseases consisting of cardiovascular disorders, gastrointestinal and liver diseases, inflammatory diseases, hematological disorders, respiratory diseases, neurological disorders, urological

disorders, thrombocytopenia and myeloma in a mammal comprising the steps of

- 5 i) determining the activity of a EDG6 polypeptide at a certain concentration of a test compound,
- ii) determining the activity of a EDG6 polypeptide at the presence of a compound known to be a regulator of a EDG6 polypeptide.

10 4. The method of any of claims 1 to 3, wherein the step of contacting is in or at the surface of a cell.

5. The method of any of claims 1 to 3, wherein the cell is in vitro.

15 6. The method of any of claims 1 to 3, wherein the step of contacting is in a cell-free system.

7. The method of any of claims 1 to 3, wherein the polypeptide is coupled to a detectable label.

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8. The method of any of claims 1 to 3, wherein the compound is coupled to a detectable label.

25 9. The method of any of claims 1 to 3, wherein the test compound displaces a ligand which is first bound to the polypeptide.

10. The method of any of claims 1 to 3, wherein the polypeptide is attached to a solid support.

30 11. The method of any of claims 1 to 3, wherein the compound is attached to a solid support.

12. A method of screening for therapeutic agents useful in the treatment of a disease comprised in a group of diseases consisting of cardiovascular disorders, gastrointestinal and liver diseases, inflammatory diseases, hematological disorders, respiratory diseases, neurological disorders, urological disorders, thrombocytopenia and myeloma in a mammal comprising the steps of
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- i) contacting a test compound with a EDG6 polynucleotide,
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- ii) detect binding of said test compound to said EDG6 polynucleotide.
13. The method of claim 12 wherein the nucleic acid molecule is RNA.
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14. The method of claim 12 wherein the contacting step is in or at the surface of a cell.
15. The method of claim 12 wherein the contacting step is in a cell-free system.
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16. The method of claim 12 wherein polynucleotide is coupled to a detectable label.
17. The method of claim 12 wherein the test compound is coupled to a detectable label.
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18. A method of diagnosing a disease comprised in a group of diseases consisting of cardiovascular disorders, gastrointestinal and liver diseases, inflammatory diseases, hematological disorders, respiratory diseases, neurological disorders, urological disorders, thrombocytopenia and myeloma in a mammal comprising the steps of
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- i) determining the amount of a EDG6 polynucleotide in a sample taken from said mammal,
 - ii) determining the amount of EDG6 polynucleotide in healthy and/or diseased mammals.
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19. A pharmaceutical composition for the treatment of a disease comprised in a group of diseases consisting of cardiovascular disorders, gastrointestinal and liver diseases, inflammatory diseases, hematological disorders, respiratory diseases, neurological disorders, urological disorders, thrombocytopenia and myeloma in a mammal comprising a therapeutic agent which binds to a EDG6 polypeptide.
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20. A pharmaceutical composition for the treatment of a disease comprised in a group of diseases consisting of cardiovascular disorders, gastrointestinal and liver diseases, inflammatory diseases, hematological disorders, respiratory diseases, neurological disorders, urological disorders, thrombocytopenia and myeloma in a mammal comprising a therapeutic agent which regulates the activity of a EDG6 polypeptide.
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21. A pharmaceutical composition for the treatment of a disease comprised in a group of diseases consisting of cardiovascular disorders, gastrointestinal and liver diseases, inflammatory diseases, hematological disorders, respiratory diseases, neurological disorders, urological disorders, thrombocytopenia and myeloma in a mammal comprising a therapeutic agent which regulates the activity of a EDG6 polypeptide, wherein said therapeutic agent is
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- i) a small molecule,
 - ii) an RNA molecule,
 - 30 iii) an antisense oligonucleotide,
 - iv) a polypeptide,

- v) an antibody, or
- vi) a ribozyme.

- 5 22. A pharmaceutical composition for the treatment of a disease comprised in a group of diseases consisting of cardiovascular disorders, gastrointestinal and liver diseases, inflammatory diseases, hematological disorders, respiratory diseases, neurological disorders, urological disorders, thrombocytopenia and myeloma in a mammal comprising a EDG6 polynucleotide.
- 10 23. A pharmaceutical composition for the treatment of a disease comprised in a group of diseases consisting of cardiovascular disorders, gastrointestinal and liver diseases, inflammatory diseases, hematological disorders, respiratory diseases, neurological disorders, urological disorders, thrombocytopenia and myeloma in a mammal comprising a EDG6 polypeptide.
- 15 24. Use of regulators of a EDG6 for the preparation of a pharmaceutical composition for the treatment of a disease comprised in a group of diseases consisting of cardiovascular disorders, gastrointestinal and liver diseases, inflammatory diseases, hematological disorders, respiratory diseases, neurological disorders, urological disorders, thrombocytopenia and myeloma in a mammal.
- 20 25. Method for the preparation of a pharmaceutical composition useful for the treatment of a disease comprised in a group of diseases consisting of cardiovascular disorders, gastrointestinal and liver diseases, inflammatory diseases, hematological disorders, respiratory diseases, neurological disorders, urological disorders, thrombocytopenia and myeloma in a mammal comprising the steps of
- 25 26. i) identifying a regulator of EDG6,
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- 5 ii) determining whether said regulator ameliorates the symptoms of a disease comprised in a group of diseases consisting of cardiovascular disorders, gastrointestinal and liver diseases, inflammatory diseases, hematological disorders, respiratory diseases, neurological disorders, urological disorders, thrombocytopenia and myeloma in a mammal; and
- iii) combining of said regulator with an acceptable pharmaceutical carrier.
- 10 26. Use of a regulator of EDG6 for the regulation of EDG6 activity in a mammal having a disease comprised in a group of diseases consisting of cardiovascular disorders, gastrointestinal and liver diseases, inflammatory diseases, hematological disorders, respiratory diseases, neurological disorders, urological disorders, thrombocytopenia and myeloma.